

Listing of Claims

This following listing of claims is hereby submitted to replace all versions and listings of claims previously submitted in the present application:

1. (Currently Amended) A system for dispensing a solid product, the system comprising:

a distributable container having an opening and holding containing said solid product;
wherein said distributable container comprises:

a mechanical interlock-securing said opening of said container, said mechanical interlock preventing contact with said solid product by a user and comprising; and
a cap adapted to fit over and secure said opening of said distributable container, said cap having a central axis and having an opening therein positioned off-center from said central axis; and

a disc rotatably positioned about said central axis of said cap and having at least one opening therein positioned off-center from said central axis;

a dispenser fixed at a dispensing location adapted to receive said mechanical interlock of said container;

a power source operatively coupled to said dispenser and adapted to power said mechanical interlock rotate said disc relative to said cap when said dispenser is mated to said mechanical interlock thereby aligning said opening on said cap and said opening on said disc to allow for allowing dispensing of said solid product from said distributable container to said dispenser.

2. (Original) A system as in claim 1 wherein said mechanical interlock substantially prevents moisture from said dispenser from affecting said solid product.

3. (Original) A system as in claim 1 wherein said solid product comprises a plurality of tablets.

4. (Original) A system as in claim 3 wherein said plurality of tablets can be dispensed one at a time.

5. (Original) A system as in claim 1 further comprising a cleaning machine operatively coupled to said dispenser and adapted to receive said solid product dispensed from said dispenser.

6. (Original) A system as in claim 1 wherein said mechanical interlock is fixedly secured to said container.

7. (Currently Amended) A system as in claim 1 wherein said power source provides rotary motion to said ~~mechanical interlock disc~~.

8. (Currently Amended) A system as in claim 7 ~~wherein said opening of said container is circular and wherein said interlock comprises, further comprising:~~

~~a circular cap adapted to fit over and secure said opening of said container, said circular cap having a central axis and having an opening therein positioned off center from said central axis;~~

~~a shaft operatively cooperating rotatable by with said circular cap and adapted to coupled to said power source and coupled to said disc such that rotation of said shaft causes rotation of said disc relative to said cap; and~~

~~a disc rotably coupled with said shaft positioned adjacent said circular cap nearest said solid product in said container, said disc having at least one opening therein, said at least one opening of said disc cooperating with said opening of said circular cap at an angular position upon rotation of said disc.~~

9. (Original) A system as in claim 1 wherein said solid product comprises bleach.

10. (Original) A system as in claim 1 wherein said solid product comprises rinse aid.

11. (Original) A system as in claim 1 wherein said solid product comprises detergent.

12. (Currently Amended) A distributable container ~~for holding a solid product and adapted to mate with a dispenser having a power source, said dispenser being fixed at a dispensing location, comprising:~~

~~a receptacle having an opening and holding said containing a solid dispensable product; and a mechanical interlock adapted to mate with a dispenser;~~

~~a cap adapted to fit over and secure said opening of said distributable container, said cap securing said opening of said receptacle, said mechanical interlock operable to prevent preventing contact with said solid dispensable product by a user when said mechanical interlock is not mated to said dispenser and operable to provide a passageway through which said dispensable product is provided to said dispenser when said mechanical interlock is mated to said dispenser; said~~

~~mechanical interlock adapted to mate with said dispenser and dispense said solid product using said power source.~~

13. (Currently Amended) A distributable container as in claim 12 wherein said mechanical interlock substantially prevents moisture from said dispenser from affecting said solid dispensable product.

14. (Currently Amended) A distributable container as in claim 12 wherein said solid dispensable product comprises a plurality of tablets.

15. (Original) A distributable container as in claim 14 wherein said plurality of tablets can be dispensed one at a time.

16. (Original) A distributable container as in claim 12 wherein said mechanical interlock is fixedly secured to said container.

17. (Canceled)

18. (Currently Amended) A distributable container as in claim 12 17 wherein said opening of said container is circular and wherein said interlock comprises, wherein said cap comprises a central axis and an opening positioned off-center from said central axis, the distributable container further comprising:

a circular cap adapted to fit over and secure said opening of said container, said circular cap having a central axis and having an opening therein positioned off center from said central axis;

a shaft operatively cooperating with said circular cap and adapted to coupled to said power source; and

a disc rotably positioned about said central axis of said cap and coupled with said shaft positioned adjacent said circular cap nearest said solid product in said container, said disc having at least one opening therein positioned off-center from said central axis; and

a shaft operatively coupled to said disc such that rotation of said shaft causes rotation of said disc relative to said cap thereby enabling alignment of said opening on said cap with said opening on said disc to allow for dispensing of said dispensable product to said dispenser.

19. (Currently Amended) A distributable container as in claim 12 wherein said solid dispensable product comprises bleach.

20. (Currently Amended) A distributable container as in claim 12 wherein said solid dispensable product comprises rinse aid.

21. (Currently Amended) A distributable container as in claim 12 wherein said solid dispensable product comprises detergent.

22. (Currently Amended) A method of dispensing a solid dispensable product from a distributable container having a mechanical interlock preventing contact with said solid product by a user to a dispenser fixed at a dispensing location, wherein said method comprising the comprises steps of:

providing a distributable container containing said dispensable product and having an opening, a mechanical interlock operable to mate with said dispenser, a cap covering said opening of said distributable container and having a central axis and an opening therein positioned off-center from said central axis, and a disc rotatably positioned about said central axis of said cap and having at least one opening therein positioned off-center from said central axis;

distributing said container holding said solid product to said dispensing location;

mating said mechanical interlock of said container with said dispenser; and

providing power to said mechanical interlock from said dispenser generating rotation by said disc relative to said cap thereby aligning said opening on said cap with said opening on said disc, wherein said alignment causes controllably dispense said solid dispensable product to be dispensed from said distributable container to ; whereby said dispenser-dispenses a predetermined amount of said solid product from said container without allowing contact of said solid product with said user.

23. (Currently Amended) A method as in claim 22 wherein said mechanical interlock substantially prevents moisture from outside of said container from affecting said solid dispensable product.

24. (Currently Amended) A method as in claim 22 wherein said solid dispensable product comprises a plurality of tablets.

25. (Original) A system as in claim 22 wherein said mechanical interlock is fixedly secured to said container.

26. (Original) A method as in claim 22 wherein said power provides rotary motion to said mechanical interlock.

27. (Currently Amended) A method as in claim 22 wherein said solid dispensable product comprises bleach.

28. (Currently Amended) A method as in claim 22 wherein said solid dispensable product comprises rinse aid.

~~30~~ 29. (Currently Amended) A method as in claim 22 wherein said solid dispensable product comprises detergent.